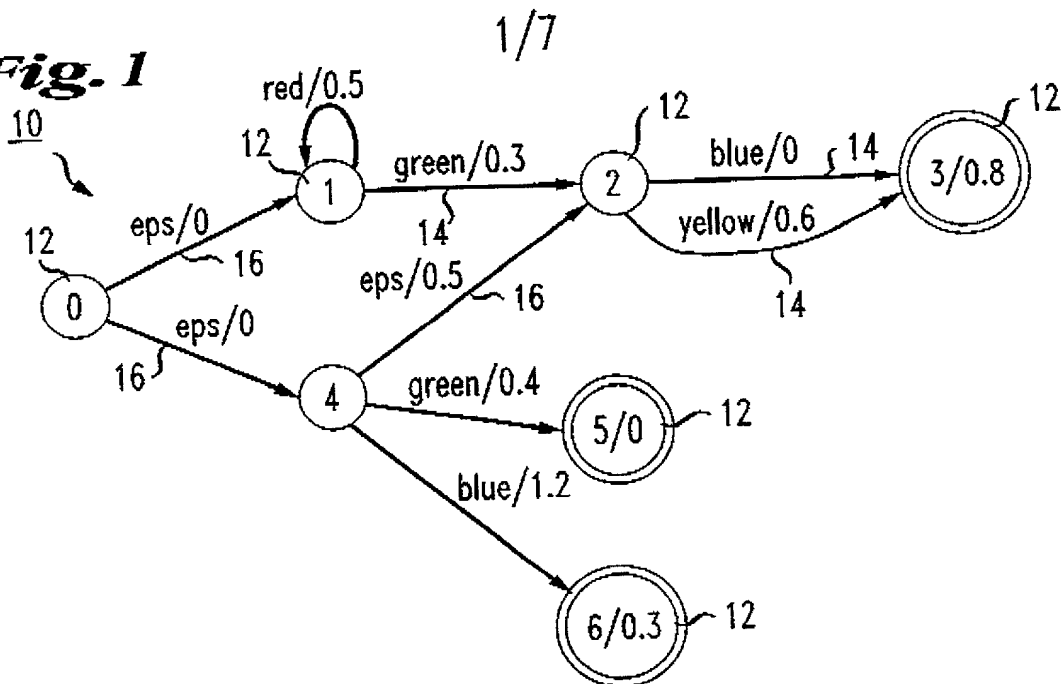
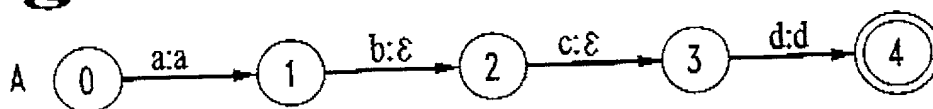
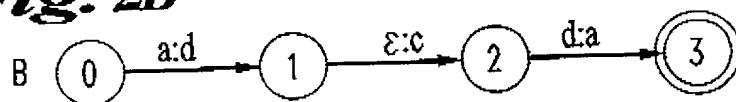
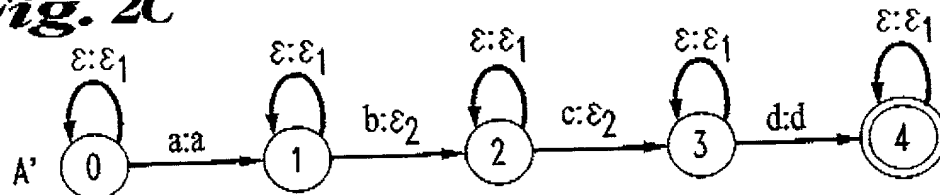
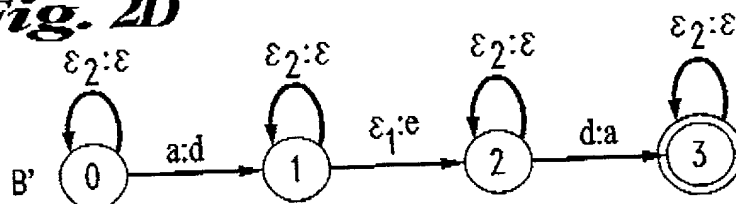


**Fig. 1****Fig. 2A****Fig. 2B****Fig. 2C****Fig. 2D**

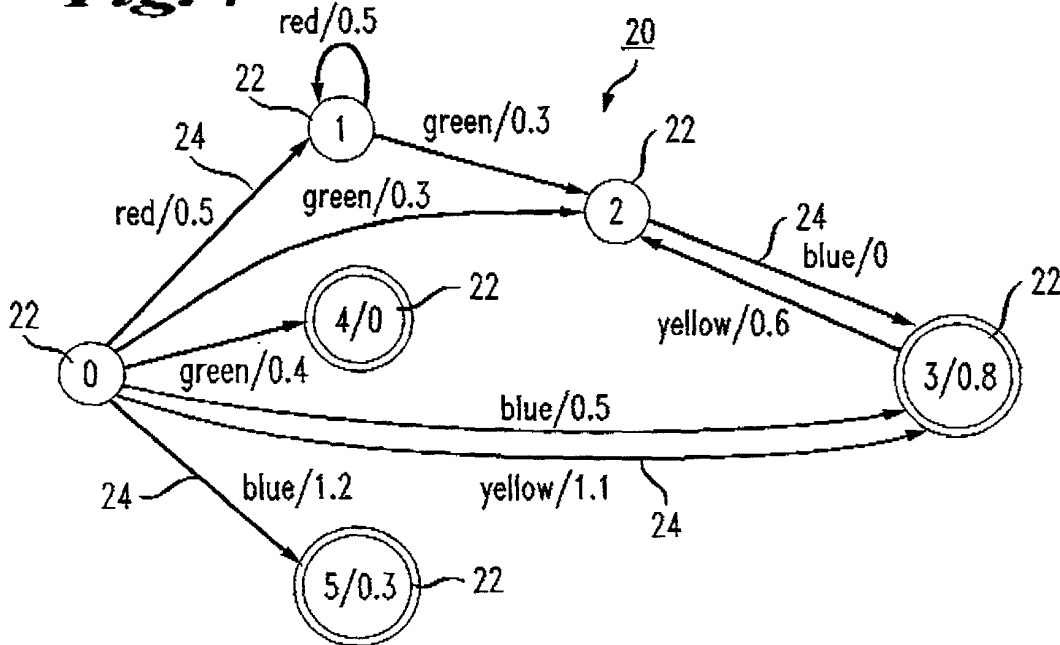
**Fig. 3**

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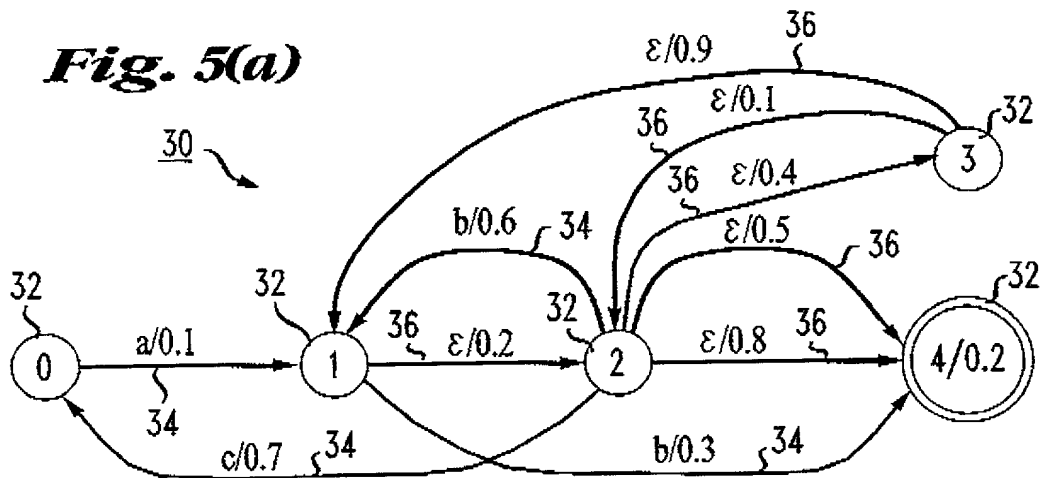
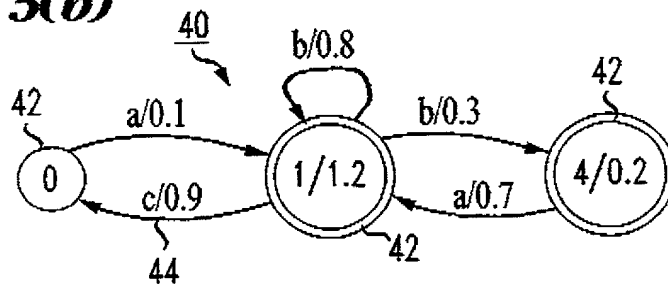
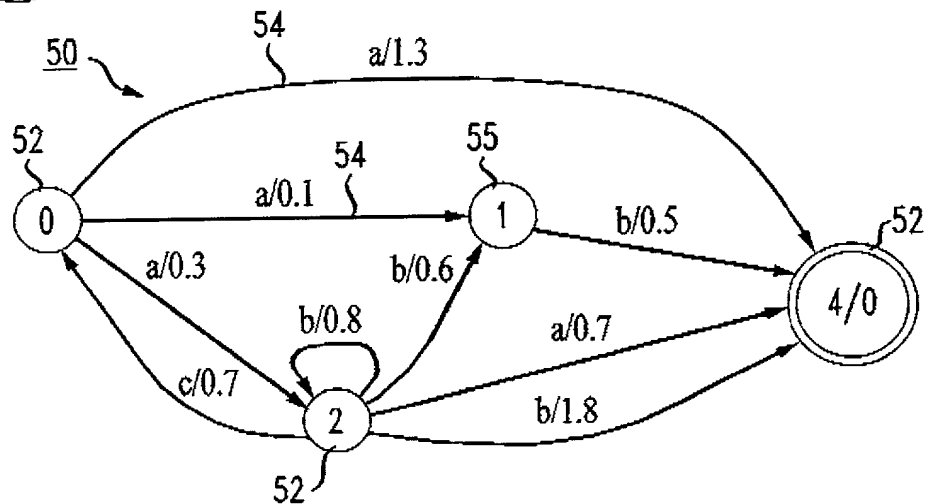
```

1   $M_{\mathcal{E}} \leftarrow M_i \setminus \{\mathcal{E}\}$ 
2   $M_0 \leftarrow M_i \setminus \Sigma^* - \{\mathcal{E}\}$ 
3   $G_{\mathcal{E}} \leftarrow \text{CLOSURE}(M_{\mathcal{E}})$ 
4  for  $p \leftarrow 1$  to  $|V|$ 
5    do for each  $e \in \text{Trans } G_{\mathcal{E}}[p]$ 
6      do for each  $t \in \text{Trans } M_i [\text{Next}(e)] \wedge i(t) \neq \mathcal{E}$ 
7        do  $t' \leftarrow \text{FINDTRANS}(i(t), \text{Next}(t), \text{Trans } M_0[p])$ 
8           $w(t') \leftarrow w(t') \oplus w(t) \otimes w(e)$ 

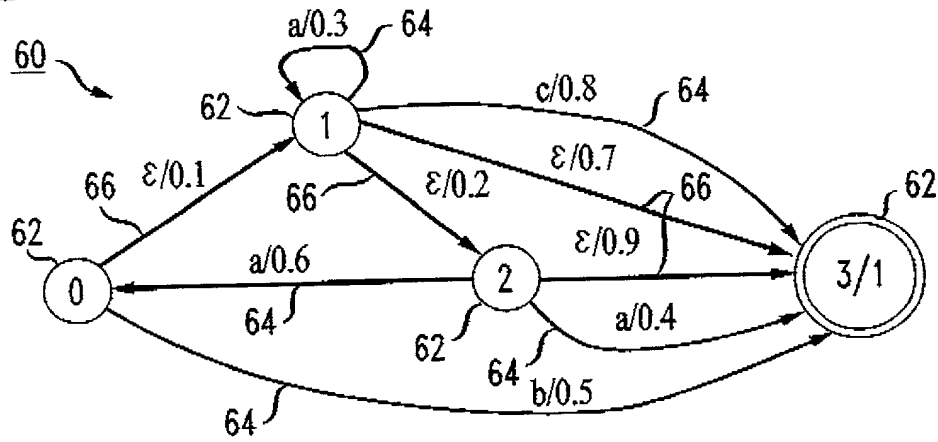
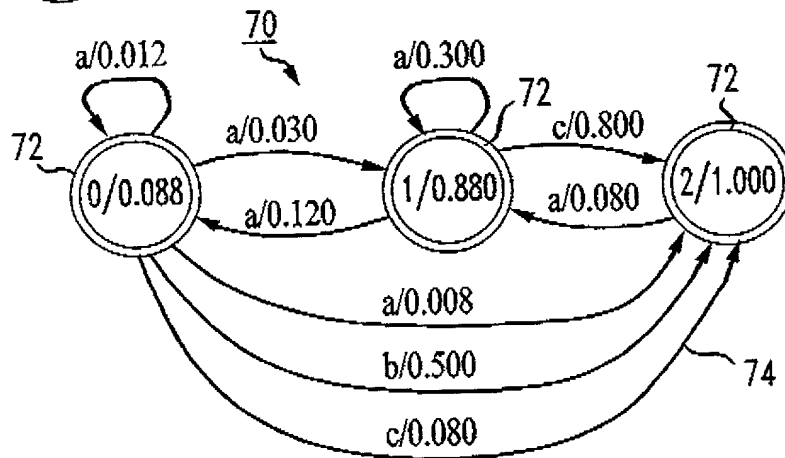
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**Fig. 4**

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**Fig. 5(a)****Fig. 5(b)****Fig. 5(c)**

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**Fig. 6(a)****Fig. 6(b)**

**Fig. 7**

## GENERIC-SINGLE-SOURCE-SHORTEST-DISTANCE (B,s)

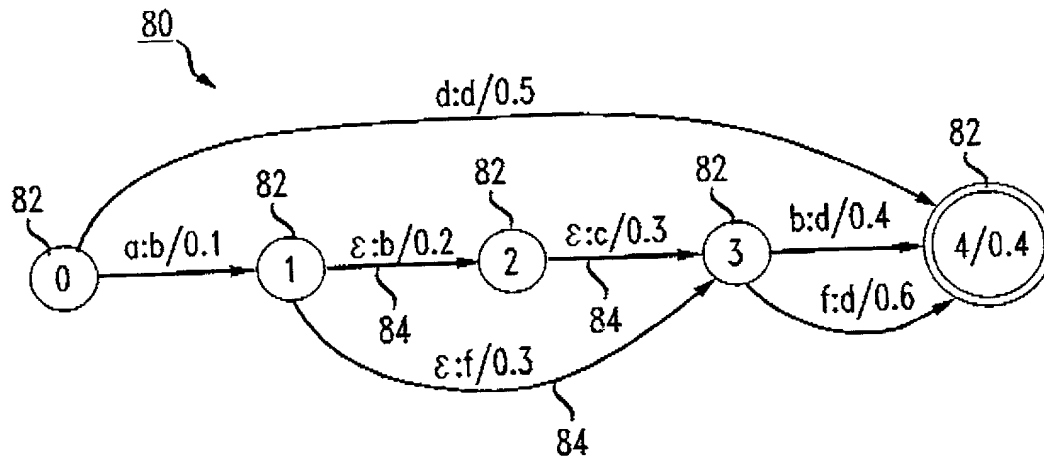
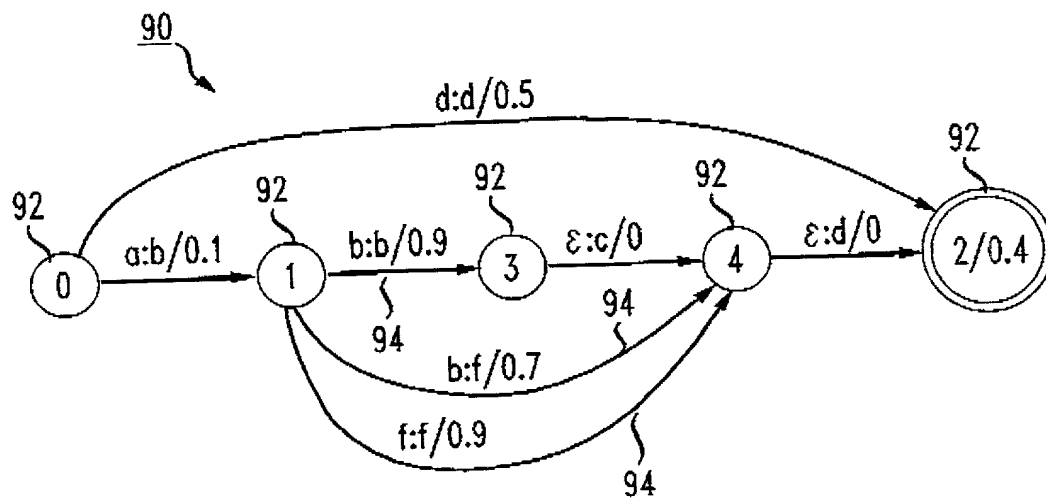
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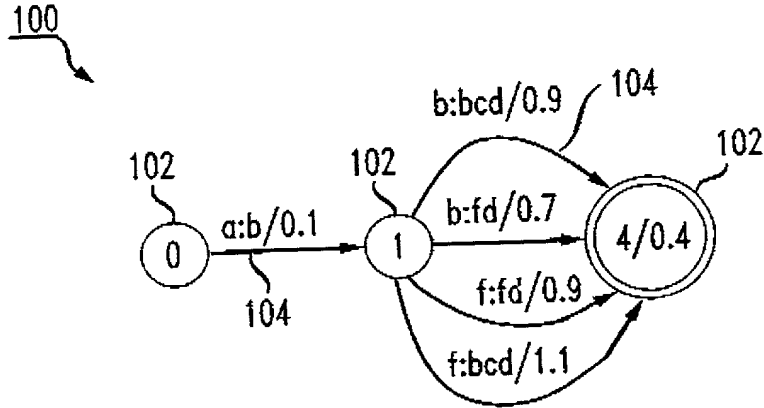
1  for each  $p \in Q$ 
2    do  $d[p] \leftarrow r[p] \leftarrow \bar{0}$ 
3   $d[s] \leftarrow r[s] \leftarrow \bar{1}$ 
4   $S \leftarrow \{s\}$ 
5  while  $S \neq \emptyset$ 
6    do  $q \leftarrow \text{head}(S)$ 
7       $\text{DEQUEUE}(S)$ 
8       $r \leftarrow r(q)$ 
9       $r(q) \leftarrow \bar{0}$ 
10     for each  $e \in E[q]$ 
11       do if  $d[n[e]] \neq d[n[e]] \oplus (r \otimes w[e])$ 
12         then  $d[n[e]] \leftarrow d[n[e]] \oplus (r \otimes w[e])$ 
13            $r[n[e]] \leftarrow r[n[e]] \oplus (r \otimes w[e])$ 
14           if  $n[e] \notin S$ 
15             then  $\text{ENQUEUE}(S, n[e])$ 
16   $d[s] \leftarrow \bar{1}$ 

```

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**Fig. 8(a)****Fig. 8(b)**

**Fig. 9(a)****Fig. 9(b)**